

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville

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Nashville, TN 37204

Tel: (615)726-0177

TestAmerica Job ID: 490-30544-1

Client Project/Site: Everett Terminal

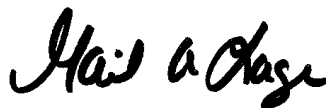
For:

Exxon Global Remed. Grp

52 Beacham Street

Everett, Massachusetts 02149

Attn: Mallory Stanhope



Authorized for release by:

7/24/2013 10:51:42 AM

Gail Lage, Senior Project Manager

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Exxon Global Remed. Grp
Project/Site: Everett Terminal

TestAmerica Job ID: 490-30544-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-30544-1	Outfall 01C	Wastewater	07/09/13 08:08	07/10/13 08:30
490-30544-2	Outfall 01C-TSS-1	Wastewater	07/09/13 08:08	07/10/13 08:30
490-30544-5	Trip Blank	Water	07/09/13 08:08	07/10/13 08:30

Case Narrative

Client: Exxon Global Remed. Grp
Project/Site: Everett Terminal

TestAmerica Job ID: 490-30544-1

Job ID: 490-30544-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-30544-1

Receipt

The samples were received on 7/10/2013 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 0.8° C.

Definitions/Glossary

Client: Exxon Global Remed. Grp
Project/Site: Everett Terminal

TestAmerica Job ID: 490-30544-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Exxon Global Remed. Grp
Project/Site: Everett Terminal

TestAmerica Job ID: 490-30544-1

Client Sample ID: Outfall 01C

Lab Sample ID: 490-30544-1

Date Collected: 07/09/13 08:08

Matrix: Wastewater

Date Received: 07/10/13 08:30

Method: 602 - Purgeable Aromatics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.360		1.00	0.360	ug/L			07/11/13 13:49	1
Toluene	0.344	J	1.00	0.330	ug/L			07/11/13 13:49	1
Ethylbenzene	<0.370		1.00	0.370	ug/L			07/11/13 13:49	1
Xylenes, Total	<0.600		3.00	0.600	ug/L			07/11/13 13:49	1
Methyl tert-butyl ether	6.71		1.00	0.460	ug/L			07/11/13 13:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	84		50 - 150					07/11/13 13:49	1

Method: 610 - PAHs (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.162		0.952	0.162	ug/L		07/12/13 06:57	07/16/13 15:26	1
Acenaphthylene	<0.219		0.952	0.219	ug/L		07/12/13 06:57	07/16/13 15:26	1
Anthracene	<0.0952		0.952	0.0952	ug/L		07/12/13 06:57	07/16/13 15:26	1
Benzo[a]anthracene	<0.0190		0.190	0.0190	ug/L		07/12/13 06:57	07/16/13 15:26	1
Benzo[a]pyrene	<0.0190		0.0952	0.0190	ug/L		07/12/13 06:57	07/16/13 15:26	1
Benzo[b]fluoranthene	<0.0190		0.0952	0.0190	ug/L		07/12/13 06:57	07/16/13 15:26	1
Benzo[g,h,i]perylene	<0.0190		0.190	0.0190	ug/L		07/12/13 06:57	07/16/13 15:26	1
Benzo[k]fluoranthene	<0.0190		0.133	0.0190	ug/L		07/12/13 06:57	07/16/13 15:26	1
Chrysene	<0.0190		0.0952	0.0190	ug/L		07/12/13 06:57	07/16/13 15:26	1
Dibenz(a,h)anthracene	<0.0286		0.190	0.0286	ug/L		07/12/13 06:57	07/16/13 15:26	1
Fluoranthene	<0.0286		0.190	0.0286	ug/L		07/12/13 06:57	07/16/13 15:26	1
Fluorene	<0.0381		0.476	0.0381	ug/L		07/12/13 06:57	07/16/13 15:26	1
Indeno[1,2,3-cd]pyrene	<0.0381		0.190	0.0381	ug/L		07/12/13 06:57	07/16/13 15:26	1
Naphthalene	<0.324		0.952	0.324	ug/L		07/12/13 06:57	07/16/13 15:26	1
Phenanthrene	<0.0476		0.476	0.0476	ug/L		07/12/13 06:57	07/16/13 15:26	1
Pyrene	<0.0286		0.190	0.0286	ug/L		07/12/13 06:57	07/16/13 15:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>p</i> -Terphenyl	78		25 - 135				07/12/13 06:57	07/16/13 15:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	<1.58		4.52	1.58	mg/L		07/18/13 10:27	07/18/13 10:27	1

TestAmerica Nashville

Client Sample Results

Client: Exxon Global Remed. Grp
Project/Site: Everett Terminal

TestAmerica Job ID: 490-30544-1

Client Sample ID: Outfall 01C-TSS-1

Lab Sample ID: 490-30544-2

Date Collected: 07/09/13 08:08

Matrix: Wastewater

Date Received: 07/10/13 08:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	1.20		1.00	0.700	mg/L			07/10/13 17:00	1

Client Sample Results

Client: Exxon Global Remed. Grp
Project/Site: Everett Terminal

TestAmerica Job ID: 490-30544-1

Client Sample ID: Trip Blank

Lab Sample ID: 490-30544-5

Date Collected: 07/09/13 08:08

Matrix: Water

Date Received: 07/10/13 08:30

Method: 602 - Purgeable Aromatics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.360		1.00	0.360	ug/L			07/11/13 11:39	1
Toluene	<0.330		1.00	0.330	ug/L			07/11/13 11:39	1
Ethylbenzene	<0.370		1.00	0.370	ug/L			07/11/13 11:39	1
Xylenes, Total	<0.600		3.00	0.600	ug/L			07/11/13 11:39	1
Methyl tert-butyl ether	<0.460		1.00	0.460	ug/L			07/11/13 11:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		50 - 150		07/11/13 11:39	1

QC Sample Results

Client: Exxon Global Remed. Grp
Project/Site: Everett Terminal

TestAmerica Job ID: 490-30544-1

Method: 602 - Purgeable Aromatics (GC)

Lab Sample ID: MB 490-92183/4

Matrix: Water

Analysis Batch: 92183

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.360		1.00	0.360	ug/L			07/11/13 10:01	1
Toluene	<0.330		1.00	0.330	ug/L			07/11/13 10:01	1
Ethylbenzene	<0.370		1.00	0.370	ug/L			07/11/13 10:01	1
Xylenes, Total	<0.600		3.00	0.600	ug/L			07/11/13 10:01	1
Methyl tert-butyl ether	<0.460		1.00	0.460	ug/L			07/11/13 10:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	87		50 - 150		07/11/13 10:01	1

Lab Sample ID: LCS 490-92183/2

Matrix: Water

Analysis Batch: 92183

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	19.87		ug/L		99	39 - 150
Toluene	20.0	20.48		ug/L		102	46 - 148
Ethylbenzene	20.0	20.71		ug/L		104	32 - 160
Xylenes, Total	60.0	62.00		ug/L		103	66 - 136
Methyl tert-butyl ether	20.0	18.84		ug/L		94	56 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	92		50 - 150

Lab Sample ID: 490-30544-1 MS

Matrix: Wastewater

Analysis Batch: 92183

Client Sample ID: Outfall 01C

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.360		20.0	17.02		ug/L		85	39 - 150
Toluene	0.344	J	20.0	18.23		ug/L		89	46 - 148
Ethylbenzene	<0.370		20.0	17.31		ug/L		87	32 - 160
Xylenes, Total	<0.600		60.0	52.96		ug/L		88	66 - 136
Methyl tert-butyl ether	6.71		20.0	22.83		ug/L		81	56 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
a,a,a-Trifluorotoluene	90		50 - 150

Method: 610 - PAHs (HPLC)

Lab Sample ID: MB 490-92436/1-A

Matrix: Water

Analysis Batch: 93161

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 92436

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.170		1.00	0.170	ug/L		07/12/13 06:57	07/16/13 14:12	1
Acenaphthylene	<0.230		1.00	0.230	ug/L		07/12/13 06:57	07/16/13 14:12	1
Anthracene	<0.100		1.00	0.100	ug/L		07/12/13 06:57	07/16/13 14:12	1

TestAmerica Nashville

QC Sample Results

Client: Exxon Global Remed. Grp
Project/Site: Everett Terminal

TestAmerica Job ID: 490-30544-1

Method: 610 - PAHs (HPLC) (Continued)

Lab Sample ID: MB 490-92436/1-A

Matrix: Water

Analysis Batch: 93161

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 92436

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.0200		0.200	0.0200	ug/L		07/12/13 06:57	07/16/13 14:12	1
Benzo[a]pyrene	<0.0200		0.100	0.0200	ug/L		07/12/13 06:57	07/16/13 14:12	1
Benzo[b]fluoranthene	<0.0200		0.100	0.0200	ug/L		07/12/13 06:57	07/16/13 14:12	1
Benzo[g,h,i]perylene	<0.0200		0.200	0.0200	ug/L		07/12/13 06:57	07/16/13 14:12	1
Benzo[k]fluoranthene	<0.0200		0.140	0.0200	ug/L		07/12/13 06:57	07/16/13 14:12	1
Chrysene	<0.0200		0.100	0.0200	ug/L		07/12/13 06:57	07/16/13 14:12	1
Dibenz(a,h)anthracene	<0.0300		0.200	0.0300	ug/L		07/12/13 06:57	07/16/13 14:12	1
Fluoranthene	<0.0300		0.200	0.0300	ug/L		07/12/13 06:57	07/16/13 14:12	1
Fluorene	<0.0400		0.500	0.0400	ug/L		07/12/13 06:57	07/16/13 14:12	1
Indeno[1,2,3-cd]pyrene	<0.0400		0.200	0.0400	ug/L		07/12/13 06:57	07/16/13 14:12	1
Naphthalene	<0.340		1.00	0.340	ug/L		07/12/13 06:57	07/16/13 14:12	1
Phenanthrene	<0.0500		0.500	0.0500	ug/L		07/12/13 06:57	07/16/13 14:12	1
Pyrene	<0.0300		0.200	0.0300	ug/L		07/12/13 06:57	07/16/13 14:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	91		25 - 135	07/12/13 06:57	07/16/13 14:12	1

Lab Sample ID: LCS 490-92436/2-A

Matrix: Water

Analysis Batch: 93161

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 92436

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	2.50	2.072		ug/L		83	1 - 124
Acenaphthylene	5.00	4.239		ug/L		85	1 - 139
Anthracene	2.50	2.314		ug/L		93	1 - 126
Benzo[a]anthracene	2.50	2.272		ug/L		91	12 - 135
Benzo[a]pyrene	2.50	2.346		ug/L		94	1 - 128
Benzo[b]fluoranthene	2.50	2.201		ug/L		88	6 - 150
Benzo[g,h,i]perylene	2.50	2.180		ug/L		87	1 - 116
Benzo[k]fluoranthene	2.50	2.380		ug/L		95	1 - 159
Chrysene	2.50	2.300		ug/L		92	1 - 199
Dibenz(a,h)anthracene	2.50	1.987		ug/L		79	1 - 110
Fluoranthene	2.50	2.192		ug/L		88	14 - 123
Fluorene	2.50	2.069		ug/L		83	1 - 142
Indeno[1,2,3-cd]pyrene	2.50	2.115		ug/L		85	1 - 116
Naphthalene	2.50	2.035		ug/L		81	1 - 122
Phenanthrene	2.50	2.204		ug/L		88	1 - 155
Pyrene	2.50	2.277		ug/L		91	1 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	88		25 - 135

Lab Sample ID: LCSD 490-92436/3-A

Matrix: Water

Analysis Batch: 93161

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 92436

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	2.50	1.971		ug/L		79	1 - 124	5	50

TestAmerica Nashville

QC Sample Results

Client: Exxon Global Remed. Grp
Project/Site: Everett Terminal

TestAmerica Job ID: 490-30544-1

Method: 610 - PAHs (HPLC) (Continued)

Lab Sample ID: LCSD 490-92436/3-A

Matrix: Water

Analysis Batch: 93161

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 92436

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthylene	5.00	3.878		ug/L		78	1 - 139	9	50
Anthracene	2.50	2.237		ug/L		89	1 - 126	3	50
Benzo[a]anthracene	2.50	2.277		ug/L		91	12 - 135	0	50
Benzo[a]pyrene	2.50	2.295		ug/L		92	1 - 128	2	50
Benzo[b]fluoranthene	2.50	2.193		ug/L		88	6 - 150	0	50
Benzo[g,h,i]perylene	2.50	2.208		ug/L		88	1 - 116	1	50
Benzo[k]fluoranthene	2.50	2.204		ug/L		88	1 - 159	8	50
Chrysene	2.50	2.312		ug/L		92	1 - 199	1	50
Dibenz(a,h)anthracene	2.50	1.972		ug/L		79	1 - 110	1	50
Fluoranthene	2.50	2.266		ug/L		91	14 - 123	3	50
Fluorene	2.50	1.937		ug/L		77	1 - 142	7	50
Indeno[1,2,3-cd]pyrene	2.50	2.112		ug/L		84	1 - 116	0	50
Naphthalene	2.50	2.023		ug/L		81	1 - 122	1	50
Phenanthrene	2.50	2.157		ug/L		86	1 - 155	2	50
Pyrene	2.50	2.316		ug/L		93	1 - 140	2	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	89		25 - 135

Lab Sample ID: 490-30544-1 MS

Matrix: Wastewater

Analysis Batch: 93161

Client Sample ID: Outfall 01C

Prep Type: Total/NA

Prep Batch: 92436

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	<0.162		2.38	2.022		ug/L		85	1 - 124
Acenaphthylene	<0.219		4.76	4.105		ug/L		86	1 - 139
Anthracene	<0.0952		2.38	2.162		ug/L		91	1 - 126
Benzo[a]anthracene	<0.0190		2.38	2.245		ug/L		94	12 - 135
Benzo[a]pyrene	<0.0190		2.38	2.267		ug/L		95	1 - 128
Benzo[b]fluoranthene	<0.0190		2.38	2.177		ug/L		91	6 - 150
Benzo[g,h,i]perylene	<0.0190		2.38	2.135		ug/L		90	1 - 116
Benzo[k]fluoranthene	<0.0190		2.38	2.251		ug/L		95	1 - 159
Chrysene	<0.0190		2.38	2.320		ug/L		97	1 - 199
Dibenz(a,h)anthracene	<0.0286		2.38	2.148		ug/L		90	1 - 110
Fluoranthene	<0.0286		2.38	2.249		ug/L		94	14 - 123
Fluorene	<0.0381		2.38	2.003		ug/L		84	1 - 142
Indeno[1,2,3-cd]pyrene	<0.0381		2.38	2.082		ug/L		87	1 - 116
Naphthalene	<0.324		2.38	2.139		ug/L		90	1 - 122
Phenanthrene	<0.0476		2.38	2.133		ug/L		90	1 - 155
Pyrene	<0.0286		2.38	2.174		ug/L		91	1 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl	94		25 - 135

TestAmerica Nashville

QC Sample Results

Client: Exxon Global Remed. Grp
Project/Site: Everett Terminal

TestAmerica Job ID: 490-30544-1

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 490-93806/1-A

Matrix: Water

Analysis Batch: 93809

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 93806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	<1.40		4.00	1.40	mg/L		07/18/13 10:27	07/18/13 10:27	1

Lab Sample ID: LCS 490-93806/2-A

Matrix: Water

Analysis Batch: 93809

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 93806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease (HEM)	41.7	40.00		mg/L		96	78 - 114

Lab Sample ID: LCSD 490-93806/3-A

Matrix: Water

Analysis Batch: 93809

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 93806

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Oil & Grease (HEM)	41.7	39.79		mg/L		95	78 - 114	1	18

Lab Sample ID: 490-30520-P-1-A MS

Matrix: Water

Analysis Batch: 93809

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 93806

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease (HEM)	<1.58		46.5	39.65		mg/L		85	78 - 114

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 490-92091/1

Matrix: Water

Analysis Batch: 92091

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<0.700		1.00	0.700	mg/L			07/10/13 17:00	1

Lab Sample ID: LCS 490-92091/2

Matrix: Water

Analysis Batch: 92091

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	101	97.30		mg/L		97	90 - 110

Lab Sample ID: 490-30498-F-4 DU

Matrix: Water

Analysis Batch: 92091

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	2.80		2.500		mg/L		11	20

TestAmerica Nashville

QC Sample Results

Client: Exxon Global Remed. Grp
Project/Site: Everett Terminal

TestAmerica Job ID: 490-30544-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: 490-30512-K-1 DU
Matrix: Water
Analysis Batch: 92091

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	0.800	J	0.8000	J	mg/L		0	20

QC Association Summary

Client: Exxon Global Remed. Grp
Project/Site: Everett Terminal

TestAmerica Job ID: 490-30544-1

GC VOA

Analysis Batch: 92183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-30544-1	Outfall 01C	Total/NA	Wastewater	602	
490-30544-1 MS	Outfall 01C	Total/NA	Wastewater	602	
490-30544-5	Trip Blank	Total/NA	Water	602	
LCS 490-92183/2	Lab Control Sample	Total/NA	Water	602	
MB 490-92183/4	Method Blank	Total/NA	Water	602	

HPLC/IC

Prep Batch: 92436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-30544-1	Outfall 01C	Total/NA	Wastewater	610	
490-30544-1 MS	Outfall 01C	Total/NA	Wastewater	610	
LCS 490-92436/2-A	Lab Control Sample	Total/NA	Water	610	
LCSD 490-92436/3-A	Lab Control Sample Dup	Total/NA	Water	610	
MB 490-92436/1-A	Method Blank	Total/NA	Water	610	

Analysis Batch: 93161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-30544-1	Outfall 01C	Total/NA	Wastewater	610	92436
490-30544-1 MS	Outfall 01C	Total/NA	Wastewater	610	92436
LCS 490-92436/2-A	Lab Control Sample	Total/NA	Water	610	92436
LCSD 490-92436/3-A	Lab Control Sample Dup	Total/NA	Water	610	92436
MB 490-92436/1-A	Method Blank	Total/NA	Water	610	92436

General Chemistry

Analysis Batch: 92091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-30498-F-4 DU	Duplicate	Total/NA	Water	SM 2540D	
490-30512-K-1 DU	Duplicate	Total/NA	Water	SM 2540D	
490-30544-2	Outfall 01C-TSS-1	Total/NA	Wastewater	SM 2540D	
LCS 490-92091/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 490-92091/1	Method Blank	Total/NA	Water	SM 2540D	

Prep Batch: 93806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-30520-P-1-A MS	Matrix Spike	Total/NA	Water	1664A	
490-30544-1	Outfall 01C	Total/NA	Wastewater	1664A	
LCS 490-93806/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 490-93806/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	
MB 490-93806/1-A	Method Blank	Total/NA	Water	1664A	

Analysis Batch: 93809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-30520-P-1-A MS	Matrix Spike	Total/NA	Water	1664A	93806
490-30544-1	Outfall 01C	Total/NA	Wastewater	1664A	93806
LCS 490-93806/2-A	Lab Control Sample	Total/NA	Water	1664A	93806
LCSD 490-93806/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	93806
MB 490-93806/1-A	Method Blank	Total/NA	Water	1664A	93806

TestAmerica Nashville

Lab Chronicle

Client: Exxon Global Remed. Grp
Project/Site: Everett Terminal

TestAmerica Job ID: 490-30544-1

Client Sample ID: Outfall 01C

Date Collected: 07/09/13 08:08

Date Received: 07/10/13 08:30

Lab Sample ID: 490-30544-1

Matrix: Wastewater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	602		1	92183	07/11/13 13:49	GWM	TAL NSH
Total/NA	Prep	610			92436	07/12/13 06:57	SNR	TAL NSH
Total/NA	Analysis	610		1	93161	07/16/13 15:26	HMT	TAL NSH
Total/NA	Prep	1664A			93806	07/18/13 10:27	BAD	TAL NSH
Total/NA	Analysis	1664A		1	93809	07/18/13 10:27	BAD	TAL NSH

Client Sample ID: Outfall 01C-TSS-1

Date Collected: 07/09/13 08:08

Date Received: 07/10/13 08:30

Lab Sample ID: 490-30544-2

Matrix: Wastewater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	92091	07/10/13 17:00	JMR	TAL NSH

Client Sample ID: Trip Blank

Date Collected: 07/09/13 08:08

Date Received: 07/10/13 08:30

Lab Sample ID: 490-30544-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	602		1	92183	07/11/13 11:39	GWM	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Exxon Global Remed. Grp
Project/Site: Everett Terminal

TestAmerica Job ID: 490-30544-1

Method	Method Description	Protocol	Laboratory
602	Purgeable Aromatics (GC)	40CFR136A	TAL NSH
610	PAHs (HPLC)	40CFR136A	TAL NSH
1664A	HEM and SGT-HEM	1664A	TAL NSH
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL NSH

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Exxon Global Remed. Grp
Project/Site: Everett Terminal

TestAmerica Job ID: 490-30544-1

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-13
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13 *
Arizona	State Program	9	AZ0473	05-05-14
Arkansas DEQ	State Program	6	88-0737	04-25-14
California	NELAP	9	1168CA	10-31-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-14
Illinois	NELAP	5	200010	12-09-13
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky (UST)	State Program	4	19	06-30-14
Louisiana	NELAP	6	30613	06-30-14
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-14
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-14
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13 *
New Hampshire	NELAP	1	2963	10-10-13
New Jersey	NELAP	2	TN965	06-30-14
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-14
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-13
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-14
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	02-28-14
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Virginia	NELAP	3	460152	06-14-14
Washington	State Program	10	C789	07-19-13 *
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Nashville

COOLER RECEIPT FORM



Cooler Received/Opened On 7/10/2013 @ 0830

1. Tracking # 6178 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 96210146

2. Temperature of rep. sample or temp blank when opened: 0.8 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) EA

7. Were custody seals on containers: YES NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) EA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) EA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

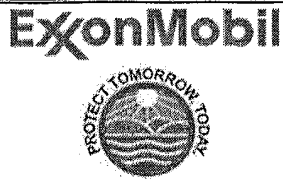
19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) EA

I certify that I attached a label with the unique LIMS number to each container (initial) EA

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#

	ExxonMobil Everett Terminal NPDES Permit Compliance & Sampling Procedure	Revision Number: 2
	NPDES Permit #MA0000833	Revision Date: 3-22-12
	Prepared by: EMPCo	Endorsed by:
		Procedure Effective Date: 1-1-12

Appendix E

Required MLs for Samples from Outfalls 01A and 01C to Accompany Chain of Custody

Polycyclic Aromatic Hydrocarbons

Group I	Permit Required Minimum Level for Analysis, ug/L
Benzo(a)anthracene	<0.05
Benzo(a)pyrene	<0.05
Benzo(b)fluoranthene	<0.05
Benzo(k)fluoranthene	<0.05
Chrysene	<0.5
Dibenzo(a,h)anthracene	<0.10
Indeno(1,2,3-cd)pyrene	<0.10
Group II	Permit Required Minimum Level for Analysis, ug/L
Acenaphthene	<5.00
Acenaphthylene	<5.00
Anthracene	<2.0
Benzo(ghi)perylene	<0.2
Fluoranthene	<0.50
Fluorene	<0.5
Naphthalene	<5.00
Phenanthrene	<2.00
Pyrene	<1.00
Other	Permit Required Minimum Level for Analysis, ug/L
Available Cyanide	< 2.00
Total Mercury (Hg)	< 2.00
Methyl Tertiary-Butyl Ether (MTBE)	< 5.00

Loc: 490

30544

Login Sample Receipt Checklist

Client: Exxon Global Remed. Grp

Job Number: 490-30544-1

Login Number: 30544

List Source: TestAmerica Nashville

List Number: 1

Creator: Buckingham, Paul

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	